ABSTRACT

Mist of titanium element-containing liquid particles is adhered to the surface of a glass substrate having a surface compressive stress of at most 10 MPa so as to coat the surface of the glass substrate with the liquid. Next, the liquid-coated surface is heated up to a maximum temperature of from 550 to 700°C and then cooled under a specific condition, thereby making the resulting glass sheet have a surface compressive stress of from 20 to 250 MPa. The process gives a glass sheet coated with a titanium oxide thin film having a photocatalytic function. The resulting titanium oxide thin film had good adhesiveness and abrasion resistance. Since its surface has a micro-roughness, the glass sheet has neither interference color nor interference fringes and has good transparency.